

PERMANENT OUTDOOR HIGH-RESISTANCE SIGNAGE

ENAMELED LAVA STONE



tourist and landscape signage – heritage interpretation – orientation tables

everything you need to know about
enameled lava



www.signsandlava.gr



A brief history...

Enameled lava stone has been used in signage for more than a century. As early as 1908, the French Touring Club chose this material for orientation tables to indicate points of interest. From the end of the 1st WW onwards, Michelin installed enameled lava signs throughout villages and towns in France. The original art nouveau world famous "Metro" signs were also made of enameled lava. These signs are still in use today, unaltered & still functional, as part of the French heritage.

Signs in enameled lava can be found in many famous sites around the world. The material has been approved by archaeologists worldwide & has been qualified in numerous Unesco heritage sites. It has also been selected by many architects for elegant creations.

Lava Stone

Lava, or the "eternal stone" as it is often called, is a natural product that is excavated from the quarries in Volvic (France).

Weight : 55kg/m² at thickness 25mm.

Density : 2.2

Max. dimensions : 1x1.5m in a single unit.

Recommended thickness : 15, 25 or 30mm, depending on size of unit.

Aesthetic value & design versatility

Signage in lava is unsurpassed in quality. The signs can be cut in any shape with waterjet cutting process. Fire resistant enamels combined with the technique of silk screening permit infinite design possibilities and a vast colour scheme.



High resistance material

Enameled lava stone is impervious to climatic factors, to sudden temperature changes (frost or extreme heat) and to sun radiation. It is unaffected by pollution or corrosion caused by sea air, sand or haze.

Scratch & impact resistant

Enameled lava stone is resistant in case of scratching with a key or other similar sharp object, even on the coloured printed areas. Furthermore it has an excellent resistance in case of impact, with a hardness coefficient set between that of marble and granite.

Graffiti

All types of graffiti may be easily removed from the surface of enameled lava with the use of a common solvent (acetone), leaving the colours entirely unaffected.



Warranty Enameled lava stone is accompanied by a 10 year warranty for resistance of colours.



Hand made process – respect to colors

Printing on lava is achieved with a serigraphic-type process using silk screens and special fire resistant enamels that are fired at around 1000°C for about 12 hours. It is possible to obtain one or more colours, all the way up to four colour process quadricromy or more. The production process is entirely manual, making each slab a small piece of art. For this reason although if great attempt is always made for the precision of colours, usually there is a slight difference from what we may see on the proof print on paper.

Craquelle (surface crazing)

The adhesion of the enamel on the lava is total: after firing they become one indivisible body. On the enamelled surface a slight and uniform crazing appears (the craquelle, a similar effect to that on porcelain). It is an inevitable and characteristic feature, caused by the difference in dilatation between the enamel and stone during firing which does not affect colours or images and gives enamelled lava its natural “handcrafted” aspect.

Edge detail

Lava signs may have rounded and enamelled edges or clean cut edges with visible lava.

Sand blast

With the use of sandblast it is possible to carve any text or drawing on the enamelled surface of lava signs either they be slabs or solid blocks, revealing in this way the underlying gray lava.



Base and graphic design



Sand stone



Lava



Inox



Marble

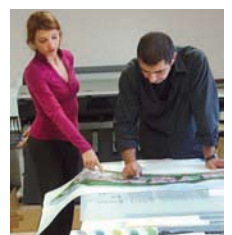
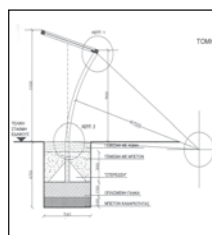


Concrete



Metal

Design and production of base supports from a vast selection of materials, as well as the installation of the signage systems is included in **SIGNS&LAVA** services. We also undertake the graphic design. All you have to do is give us your original material (texts, images, drawings) and the desired direction to be followed and we can take care of the rest, for a high quality turn-key solution.



Why choose enamelled lava

Natural product – Ecological production process – 100% recyclable – Without toxic radiation

Product Qualities

Product	Natural	Recyclable	Energy balance
Enamelled lava	YES	YES	0.15MJ/Kg Excellent
Aluminium sheets	NO	YES (incineration)	74 MJ/Kg
Wood	YES	YES	3.5 MJ/Kg
PVC	NO	YES (incineration)	41 MJ/Kg

Resistance of material and decorations

Process	Colour resistance	resistance to acids and dilutants	vandalism (graffiti and scratches)
Enamelled lava	> 30 years	Excellent	Excellent
Digital printing	no guarantee	NO	NO
Ink silkscreening	no guarantee	NO	NO



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Ήλιδα • Ηλεία



Κεραμεικός • Ηλεία



Πρόερνα • Φθιώτιδα



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Φρούριο Ρίου • Αχαΐα



Δεντρά • Αργολίδα



Ολυμπείο • Αθήνα



Σικύωνα • Κορινθία



Άργος



Σπήλαιο Θεόπετρας • Τρίκαλα



Καρθαία • Κέα



Αιγόςθενα • Αττική



Λήλος



Κόρινθος



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